Docket number: 56104576-22

IN THE UNITED STATES PATENT & TRADEMARK OFFICE

n re Application of: Brendon Conlan et al.

Art Unit:

1753

Serial No.:

09/887,371

Examiner:

Arun S. Phasge

For:

REMOVAL OF BIOLOGICAL CONTAMINANTS

Date:

August 30, 2004

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

SIR:

In accordance with the duty of disclosure under 37 C.F.R. § 1.56 and in conformance with the procedures of 37 C.F.R. §§ 1.97 and 1.98 and M.P.E.P. § 609, attorneys for the Applicants hereby bring the following materials to the examination of the above-identified application to the attention of the Examiner. The materials are listed on the attached PTO/SB/08A forms. The attached forms do not contain citations to materials disclosed during the earlier prosecution of this application serial number 09/887,371; the examiner should refer to the earlier filed Information Disclosure Statement for those materials.

Copies of the articles and foreign patents and published patent applications cited are enclosed. Also enclosed are three International Search Reports. It is respectfully requested that the information be expressly considered during the prosecution of this application, and that the materials be made of record therein and appear among the "References Cited" on any patent to issue therefrom.

CERTIFICATE OF MAILING

I hereby certify that this correspondence is being deposited with the United States Postal Service as First Class Mail on the date listed below and is addressed to Commissioner for Patents, P.O. Box 1450, Alexandria, VA, 22313-1450.

Amelia Finker

Date: August 30, 2004

This information disclosure statement is being filed under 37 C.F.R. § 1.97(b)(4), before the mailing of a first Office action after the filing of a request for continued examination under § 1.114. While no fee is believed due, if any fee is deemed due, the Commissioner of Patents and Trademarks is hereby authorized to charge Deposit Account No. 02-0393 of Baker & McKenzie.

Date: August 30, 2004

Respectfully submitted,

James David Jacobs

Reg. No. 24,299

Baker & McKenzie 805 Third Avenue

New York, New York 10022

Telephone (212) 751-5700 Facsimile (212) 759-9133

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet	1	of	/.
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Complete if Known				
Application Number	09/887,371			
Filing Date				
First Named Inventor	CONLAN et al.			
Group Art Unit				
Examiner Name				
Attorney Docket Number	56104576-22			

				U.S. PATENT DOCU	MENTS ·	
Examiner Initials*	Cile No.1	U.S. Patent Number	Document Kind Code ² (If known)	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant
	1	5,437,774		LAUTSEN	08/01/1995	Figures Appear
	2	3,878,564		YAO et al.	04/22/1975	
	_3	4,036,748		KNICKEL et al.	07/19/1977	
	4_	4,045,337		KNICKEL et al.	08/30/1977	
	_5	4,045,455		VOGEL	08/30/1977	
	_6	4,069,215		ELFERT et al.	01/17/1978	
	7	4,115,225		PARSI	09/19/1978	
	8	4,123,342 4,174,439		AHLGREN	10/31/1978	
		4,174,439		RAUENBUSCH et al.	11/13/1979	
	<u> 10</u>	4,204,929		NAUMANN	04/01/1980	
	12	4,217,227		BIER	05/27/1980	
	13	4,238,306		ELFERT et al.	08/12/1980	
	14	4,238,307		PERRY et al. PERRY et al.	12/09/1980	
	15	4,252,652		ELFERT et al.	12/09/1980	
		4,259,079		BLUM	02/24/1981	
		4,269,967		ELFERT et al.	03/31/1981	
		4,276,140		JAIN	05/26/1981 06/30/1981	
		4,279,724		HEARN et al.	07/21/1981	
	20	4,299,677		VENKATASUBRAMANIAN et al.	11/10/1981	

	Cite No.1		Foreign Patent Doo		EIGN PATENT DOCUMENTS					
Examiner Initials		Office	3 Number ⁴	Kind Code ^s (i/ known)	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant	T,		
	21		97/14486		BAYER AKTIENGESELLSCHA	04/24/1997	Figures Appear	┿		
	22		98/21384		BAYER AKTIENGESELLSCHA			+-		
	23	WO.	98/43718		BAYER AKTIENGESELLSCHA		·	╀		
	24_		2118975A		Nishizawa	2/16/83		+-		
	25		93/06475		Dow Chemical Co.	4/1/1993	·	╁		
	26		0369945A2		Aligena AG	11/9/89		╀		
	27		4116179A1		Servia Feinbiochem			╀		
	28	EP	0477541B1		Waters Investments			╁		
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Examiner		
Signature	Date	_
Signature	Considered	
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¹ Unique citation designation number. ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

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Sheet 2 of

Application Number	09/887,371
Filing Date	957007,371
First Named Inventor	CONLAN et al.
Group Art Unit	- The West and
Examiner Name	
Attomey Docket Number	56104576-22

		U.S. Patent D	Ocument	U.S. PATENT DOC	JMENTS	
Exeminer Initials	Cite No.	Number	Kind Code ² (if known)	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant
	29	4,322,275		JAIN	MM-DD-YYYY	Figures Appear
	_30 _	4,362,612		BIER	03/30/1982	
	31	4,376,023		VENKATSUBRAMANIAN et al.	12/07/1982 03/08/1983	
	<u>3</u> 2	4,381,232		BROWN	04/26/1983	
	33	4,383,923		ELFERT	05/17/1983	
	34	4,396,477		JAIN	08/02/1983	
	35	4,441,978		JAIN	04/10/1984	
	36	4,533,447		MELDON	08/06/1985	
	37	4,608,140		GOLDSTEIN	08/26/1986	
		4,661,224		GOLDSTEIN et al.	04/28/1987	
	· . 4	4,673,483		MANDLE	06/16/1987	
		4,711,722		TOYOSHI et al.	12/08/1987	
		4,749,458		MUROI	6/7/1988	
		4,780,411		PIEJKO et al.	10/25/1988	
		4,897,169		BIER et al.	01/30/1990	
		4,963,236		RODKEY et al.	10/16/1990	
		5,043,048	!	MURALIDHARA	08/27/1991	
		5,080,770		CULKIN	01/14/1992	
		5,082,548		FAUPEL et al.	01/21/1992	
4	8 1	5,087,338		PERRY et al.	02/11/1992	

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Sheet	3	of	

Complete if Known						
Application Number	09/887,371					
Filing Date						
First Named Inventor	CONLAN					
Group Art Unit						
Examiner Name	A. PHASGE					
Attorney Docket Number	5610/576 22					

				U.S. PATENT DOC	JMENTS	
Examiner Initials*	Cite No.1	U.S. Patent Number	Document Kind Code ² (if known)	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevanl Passages or Relevanl Figures Appear
	49	5,096,547		KLOTZ et al.	03/17/1992	1 idules Appear
	.50 _	5,114,555		STIMPSON	05/19/1992	
	.51 _	5,127,999		KLOTZ et al.	07/07/1997	
	_52 _	5,160,594		HUFF et al.	11/03/1992	
	_53 _	5,173,164		EGEN et al.	12/22/1992	
	_54 _	5,185,086		KAALI et al.	02/09/1993	
	<u> </u>	5,238,570		HUGL et al.	08/24/1993	
	_56 <u> </u>	5,277,774		SHMIDT et al.	01/11/1994	
	_57	5,336,387		EGEN et al.	08/09/1994	
	58_	5,340,449		SHUKLA	08/23/1994	
	_59	5,352,343		BAILES et al.	10/04/1994	
	60	5,407,553		HERRON et al.	04/18/1995	
	_61	5,420,047		BRANDT et al.	05/30/1995	
	62	5,441,646		HELLER et al.	08/15/1995	
	63 _	5,490,939		GERIGK et al.	02/13/1996	
	64_	5,503,744		IKEMATSU et al.	04/02/1996	
	65	5,504,239		MEHL et al.	04/02/1996	
	66	5,558,753		GALLAGHER et al.	09/24/1996	
	67	5,561,115		TENOLD	10/01/1996	
	_68	5,565,102		BRANDT et al.	10/15/1996	

				FORE	IGN PATENT DOCUMEN	rs		
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	69	5,610,285		LEBING et al.	03/11/1997	Tigures Appear
	70	5,662,813		SAMMONS et al.	09/02/1997	·
	71	5,723,031		DURR et al.	03/03/1998	
	_72	5,733,442		SHUKLA	03/31/1998	
	73	5,736,023		GALLAGHER et al.	04/07/1998	
	74_	5,868,938		BOMER, deceased, et al.	02/09/1999	
	[75]	5,891,736		CHAPOTEAU et al,	04/06/1999	
	76_	5,906,724		SAMMONS et al.	05/25/1999	· · · · · · · · · · · · · · · · · · ·
	.77_	5,938,904		BADER et al.	08/17/1999	
		5,986,075		DUBOSE et al.	11/16/1999	
		6,093,296		SOANE et al.	07/25/2000	
<u> </u>	80_	6,117,297		GOLDSTEIN	09/12/2000	
	81_	6,129,842		KOSTANIAN	10/10/2000	
		6,171,825		CHÁN et al.	01/09/2001	
	83_	5,727,664		STOEV	6/1995	
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